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**New public-key cryptosystem using braid groups- \*psu.edu [PDF]**

KH Ko, SJ Lee, JH Cheon, JW Han, J Kang, C Park - Lecture Notes in Computer Science, 2000 - Springer

... **Key words:** public key cryptosystem, **braid group**, conjugacy problem, key exchange, hard problem, non-commutative **group**, one-way function, public key ...

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**[PDF] \*New signature scheme using conjugacy problem**

KH Ko, DH Choi, MS Cho, JW Lee - preprint, 2002 - citeseerx.ist.psu.edu

... We propose a new **digital signature** scheme based on a non-commutative **group** where the conjugacy ... We implement our **signature** scheme in the **braid groups** and ...

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**Group Signature Schemes Using Braid Groups- \*arxiv.org [PDF]**

T Thomas, AK Lal - Arxiv preprint cs.CR/0602063, 2006 - arxiv.org

... **Key Words:** **braid group**, **braid** cryptography, **digital signature**, **group signature**

2000 MSC: Primary: 94A60; Secondary: 20F36 1 Introduction ...

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**New digital signature scheme in Gaussian monoid**

E Sakalauskas - Informatica, 2004 - IOS Press

... **New Digital Signature** Scheme in Gaussian Monoid ... It is a pure **signature** scheme based on **group** theory mechanism ...  $p$  is canonical length and  $n$  is **Braid group** index. ...

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**[PDF] \*A survey of public-key cryptosystems**

N Kobitz, AJ Menezes - Siam Review, 2004 - pki.iam.metu.edu.tr

... execution of private-key operations such as decryption and **signature** generation. ... longest— and is still the most popular system for electronic commerce—is ...

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**[PDF] \*Post-Quantum Signatures**

J Buchmann, C Coronado, M Döring, D Engelbert, C ... - Preprint, 2004 - eprint.iacr.org

... So Shor's algorithm breaks all **digital signature** schemes in use ... The **signature** variant of that system is described in ... The  $n$ -th **Braid group**  $B_n$  is the **group** of ...

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**One digital signature scheme in semimodule over semiring**

E Sakalauskas - Informatica, 2005 - IOS Press

... One **Digital Signature** Scheme in Semimodule over Semiring ... When  $G$  is a **Braid group**, then the left weighted canonical form transformation could be applied (Ko et ...

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**[PDF] \*Provably-Secure Identification Scheme based on Braid Group**

Z Kim, K Kim - Proceedings of the international conference on soft ..., 2004 - caislab.icu.ac.kr

... **group**  $G$ , MCSP is feasible if and only if MTSP is feasible. Proof. See the proof of 'Theorem 1' in [2] ■ 2.3 Ko et al.'s Conjugacy Signature A **braid**- ...

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[New public key cryptosystem using finite non Abelian groups- \\*iacr.org \(PDF\)](#)

SH Paeng, KC Ha, JH Kim, S Chee, C Park - Lecture notes in computer science, 2001 - Springer

... to make a **signature** scheme with our PKC: In general, it is not easy to find a **signature**

scheme using an infinite non abelian **group** such as a **braid group** [11]. ...

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[Cryptanalysis of a pseudorandom generator based on braid groups- \\*saitema-u.ac.jp \(PDF\)](#)

R Gennaro, D Micciancio - Lecture notes in computer science, 2002 - Springer

... 8]. 2 Preliminaries The **n-braid group**  $B_n$  is an infinite non-commutative

**group** defined by the following **group** presentation:  $B_n = \langle \sigma_1, \dots, \sigma_{n-1} \mid \sigma_i \sigma_{i+1} \sigma_i = \sigma_{i+1} \sigma_i \sigma_{i+1}, \sigma_i^2 = 1, 1 \leq i \leq n-1 \rangle$

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Key authors: [K Ko](#) - [C Park](#) - [S Lee](#) - [J Cheon](#) - [J Han](#)

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